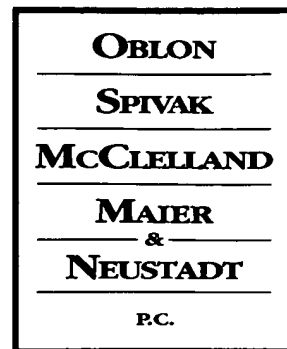




Docket No.: 220257US0CIP

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231



ATTORNEYS AT LAW

RE: Application Serial No.: 10/091,440  
Applicants: Eishun TSUCHIDA, et al.  
Filing Date: March 7, 2002  
For: METHOD OF PRESERVING OXYGEN FUSIONS

SIR:

Attached hereto for filing are the following papers:

**Preliminary Amendment w/Marked Up Copy (12 pp.)**

Our check in the amount of \$0.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

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**JUL 24 2002**

**TC 1700**

220257US0CIP



6/B  
BH  
7/31/02

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
EISHUN TSUCHIDA ET AL : EXAMINER:  
SERIAL NO: 10/091,440 :  
FILED: MARCH 7, 2002 : GROUP ART UNIT:  
FOR: METHOD OF PRESERVING :  
OXYGEN INFUSIONS :

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

RECEIVED  
JUL 24 2002  
TC 1700

SIR:

Prior to examination on the merits, please amend the above-identified application as follows:

✓  
IN THE SPECIFICATION  
✓✓

Page 4, please replace the paragraph at lines 11-20 as follows:

bl  
--In addition, the qualities of oxygen infusions deteriorate with time due to the inherent characteristics of heme protein, and therefore it is difficult to preserve them in a stable condition. More specifically, hemoglobin, lipid heme and heme derivatives can reversibly bond with oxygen when the central iron of heme is a ferrous iron ( $\text{Fe}^{2+}$ ), whereas when the ferrous iron is oxidized to a ferric iron ( $\text{Fe}^{3+}$ ), oxygen binding capability is lost. Further, even a ferrous complex bound with oxygen is gradually oxidized automatically while releasing